

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Cancelled)
2. (Previously Presented) A fingerprint authentication system, comprising:
 - a fingerprint registration data section in which pieces of fingerprint data are registered;
 - a fingerprint read section which reads one fingerprint data;
 - a fingerprint collation section which inspects whether fingerprint data that matches or almost matches to the fingerprint data read by the fingerprint read section is registered in the fingerprint registration data section;
 - a control section which registers the fingerprint data read by the fingerprint read section in the fingerprint registration data section additionally to the fingerprint data that is registered in the fingerprint registration data section and that matches or almost matches to the fingerprint data read by the fingerprint read section if the fingerprint data that matches or almost matches to the fingerprint data read by the fingerprint read section is registered in the fingerprint registration data section; and
 - deletion means for deleting the fingerprint data having a general similarity that is highest among the pieces of fingerprint data registered in the fingerprint registration data section, from the fingerprint registration section.
3. (Previously Presented) The fingerprint authentication system according to claim 2, wherein the deletion means deletes the fingerprint data having the general similarity that is highest among the pieces of fingerprint data registered in the fingerprint registration data

section, when a number of the fingerprint data registered in the fingerprint registration data section exceeds a predetermined number.

4. (Original) The fingerprint authentication system according to claim 3, further comprising:

general similarity calculation means for calculating similarities between each of the pieces of fingerprint data registered in the fingerprint registration data section and the fingerprint data other than the each fingerprint data, respectively, and for calculating the general similarity based on the similarities.

5. (Cancelled)

6. (Previously Presented) A fingerprint authentication method, comprising:

registering pieces of fingerprint data in a fingerprint registration data section;

reading one fingerprint data;

inspecting whether fingerprint data that matches or almost matches to the fingerprint data read by the fingerprint read section is registered in the fingerprint registration data section;

registering the fingerprint data read by the fingerprint read section in the fingerprint registration data section additionally to the fingerprint data that is registered in the fingerprint registration data section and that matches or almost matches to the fingerprint data read by the fingerprint read section if the fingerprint data that matches or almost matches to the fingerprint data read by the fingerprint read section is registered in the fingerprint registration data section; and

deleting the fingerprint data having a general similarity that is highest among the pieces of fingerprint data registered in the fingerprint registration data section, from the fingerprint registration data section.

7. (Previously Presented) The fingerprint authentication method according to claim 6, wherein deleting occurs when a number of the number of the fingerprint data registered in the fingerprint registration data section exceeds a predetermined number.

8. (Previously Presented) The fingerprint authentication method according to claim 7, further comprising:

calculating similarities between each of the pieces of fingerprint data registered in the fingerprint registration data section and the fingerprint data other than the each fingerprint data, respectively, and for calculating the general similarity based on the similarities.

9. (Cancelled)

10. (Previously Presented) The fingerprint authentication system according to claim 4, wherein the general similarity is calculated based on a mean square of a predetermined number of similarities of each fingerprint data.

11. (Previously Presented) The fingerprint authentication system according to claim 9, wherein the predetermined number of similarities of each fingerprint data is determined by calculating the similarity between two of a predetermined pieces of registered fingerprint data for all combinations of a selection of two pieces of data from the predetermined pieces plus

one piece of data.

12. (Cancelled)

13. (Previously Presented) The fingerprint authentication according to claim 2, wherein the control section registers the fingerprint data read by the fingerprint read section in the fingerprint registration data section additionally to the fingerprint data that is registered in the fingerprint registration data section and that matches or almost matches to the fingerprint data read by the fingerprint read section in accordance with a seasonal variation on the fingerprint data.

14. (Cancelled) The fingerprint authentication method according to claim 8, wherein the general similarity is calculated based on a sum of a predetermined number of similarities of each fingerprint data.

15. (Previously Presented) The fingerprint authentication method according to claim 8, wherein the general similarity is calculated based on a mean square of a predetermined number of similarities of each fingerprint data.

16. (Previously Presented) The fingerprint authentication system according to claim 14, wherein the predetermined number of similarities of each fingerprint data is determined by calculating the similarity between two of a predetermined pieces of registered fingerprint data for all combinations of a selection of two pieces of data from the predetermined pieces plus one piece of data.

17. (Cancelled)

18. (Previously Presented) The fingerprint authentication according to claim 6,
wherein registering the fingerprint data read by the fingerprint read section in the fingerprint
registration data section additionally to the fingerprint data that is registered in the fingerprint
registration data section and that matches or almost matches to the fingerprint data read by the
fingerprint read section occurs in accordance with seasonal variation on the fingerprint data.